

Nilit FRIANYL A63 HH-TFGV 1530 Nylon 6.6 for injection molding, 15% PTFE lubricated, 30% glass fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Nylon 6.6 for injection molding, heat and hydrolysis stabilized. Information provided by Frisetta Polymer, which merged into Nilit Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nilit-FRIANYL-A63-HH-TFGV-1530-Nylon-66-for-injection-molding-15-PTFE-lubricated-30-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Water Absorption	1.4 - 2.1 %	1.4 - 2.1 %	ISO 62
Water Absorption at Saturation	6.0 - 7.0 %	6.0 - 7.0 %	ISO 62
Viscosity Measurement	145	145	Viscosity index; ISO 307
Linear Mold Shrinkage	0.0060 - 0.013 cm/cm	0.0060 - 0.013 in/in	FRISSETTA Test Method

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	125 MPa	18100 psi	ISO 2039-1
Tensile Strength at Break	170 MPa	24700 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	9.60 GPa	1390 ksi	ISO 527
Flexural Modulus	6.70 GPa	972 ksi	ISO 178
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	DIN 53453
	NB	NB	ISO 179/1eU
	2.70 J/cm ² @Temperature -40.0 °C	12.8 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	DIN 53453
	1.10 J/cm ²	5.24 ft-lb/in ²	ISO 179/1eA
	0.420 J/cm ² @Temperature -40.0 °C	2.00 ft-lb/in ² @Temperature -40.0 °F	DIN 53453

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 3146 DSC
Maximum Service Temperature, Air	140 °C	284 °F	Continuous; FRISETTA Test Method
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 250
Comparative Tracking Index	550 V	550 V	CTI 100; IEC 112

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